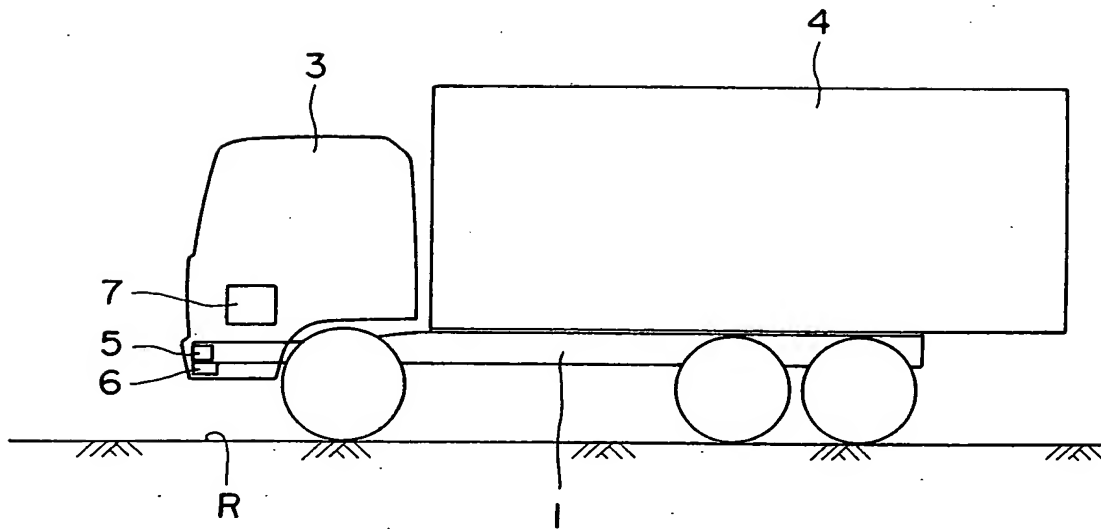


FIG. 1



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FIG. 2

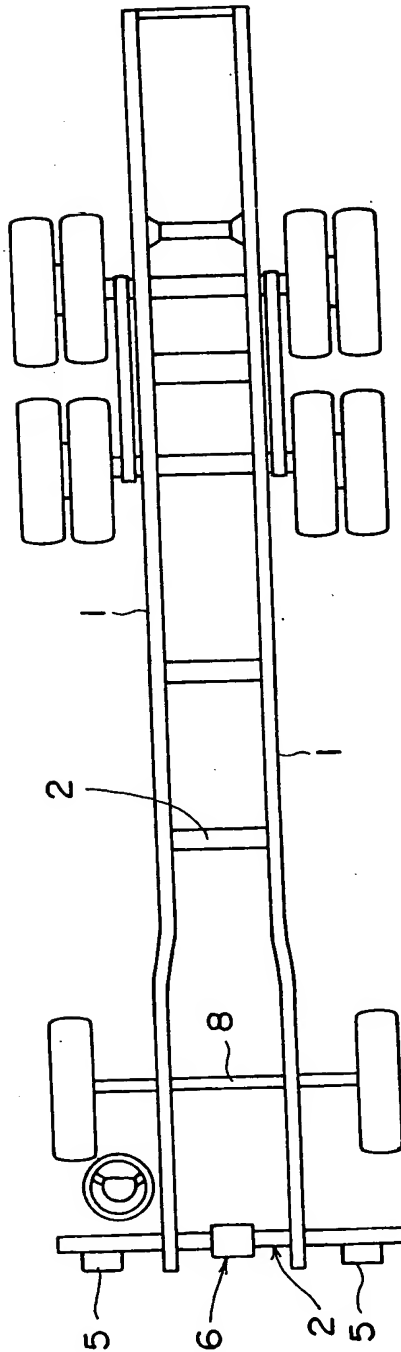


FIG. 3

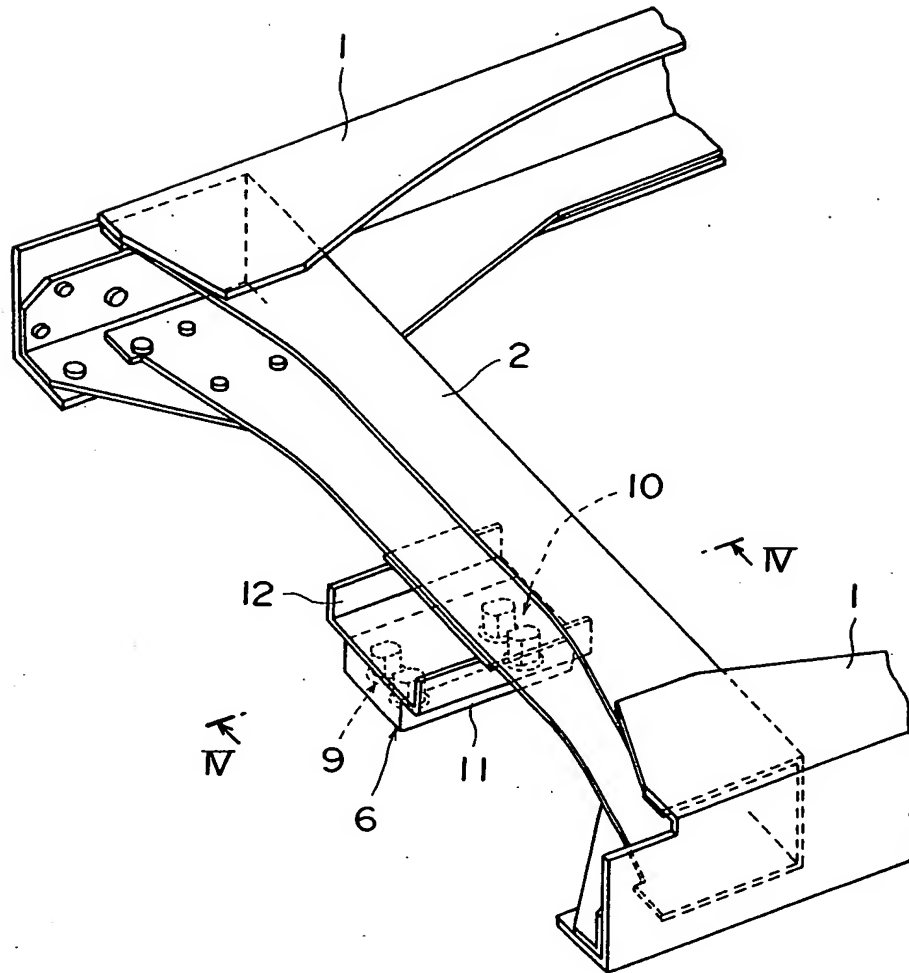


FIG. 5

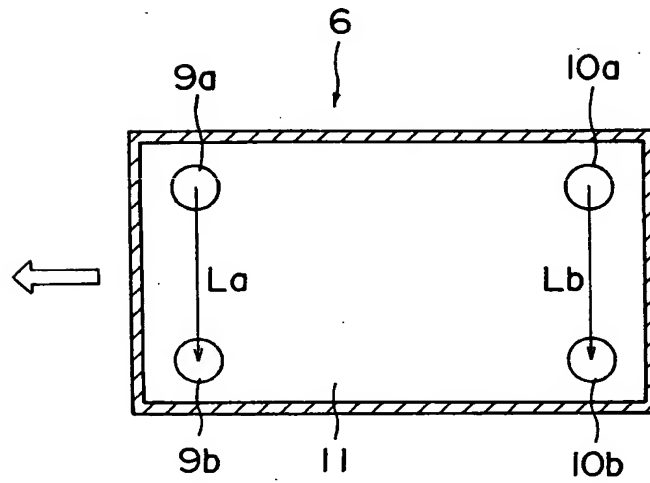
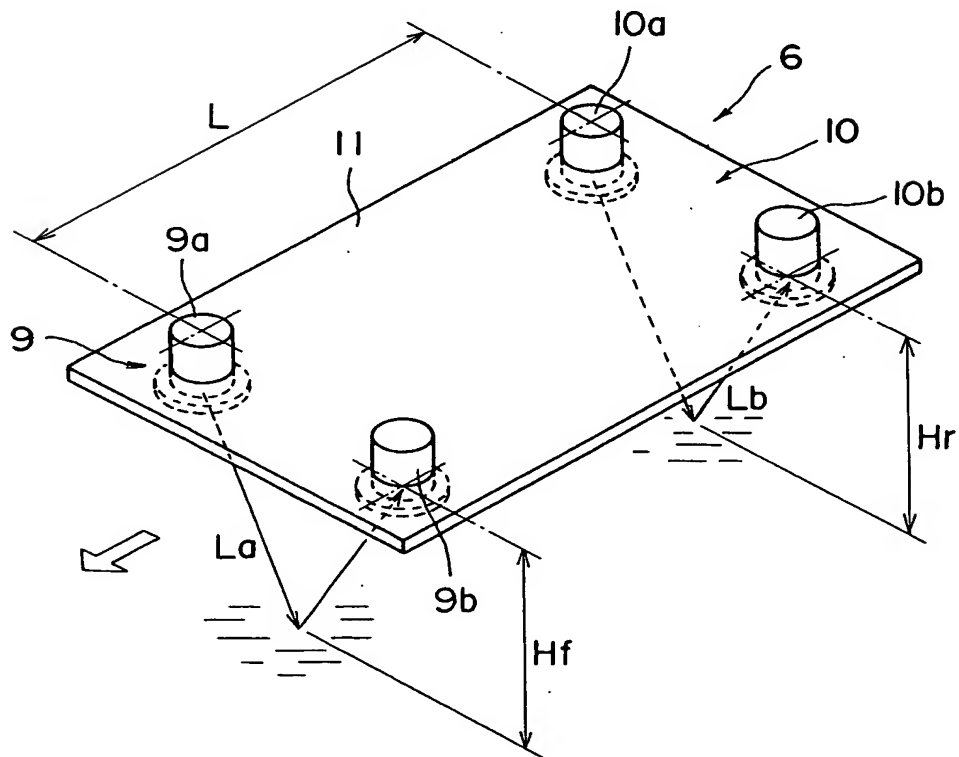


FIG. 6



A schematic diagram of a mechanical system. A horizontal beam is supported by a roller at the right end, labeled R . A vertical force Lb is applied upwards at the right support. A tilted beam is supported by two vertical supports, labeled La and Lb . The distance between these supports is L . A horizontal force Hf is applied to the left at the left support, and a horizontal force Hr is applied to the right at the right support. The vertical distance between the horizontal beam and the tilted beam is ΔS . The angle of the tilted beam is $\Delta \alpha$. The tilted beam is labeled with 9 and 10 at its ends, and 11 and 12 for its vertical sections. A dashed line indicates the original position of the tilted beam.

FIG. 8

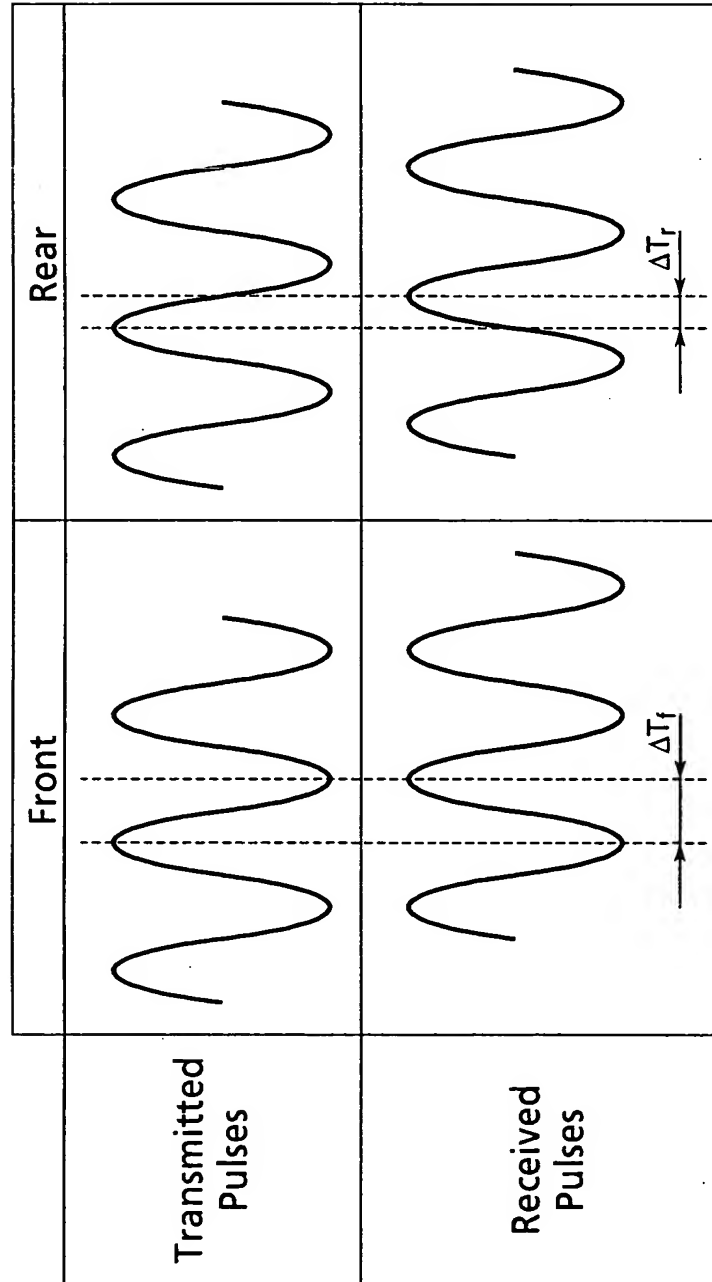


FIG. 9

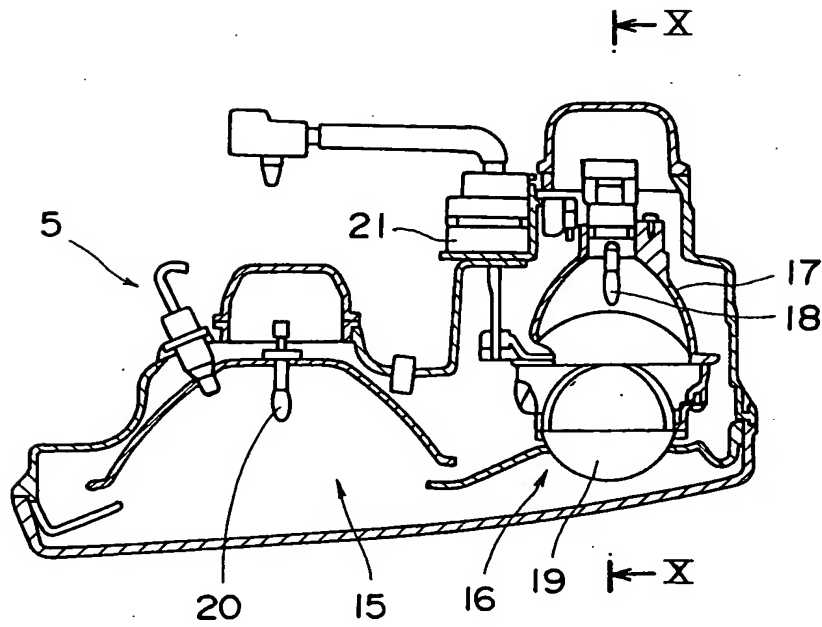


FIG. 10

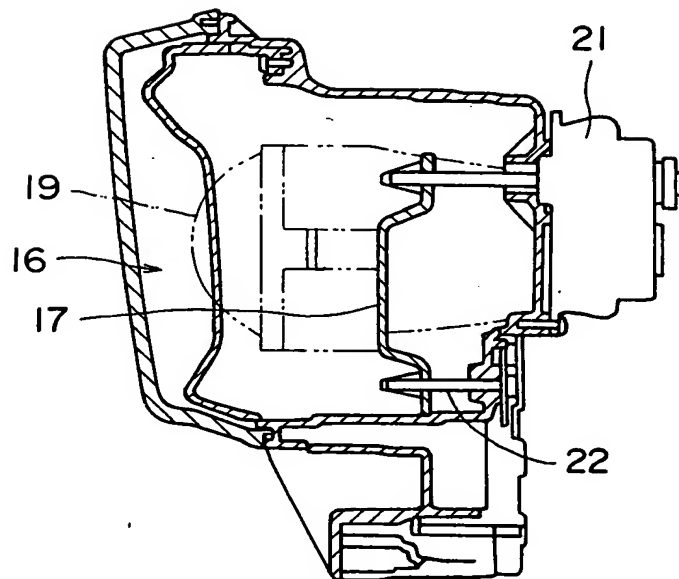


FIG. 11

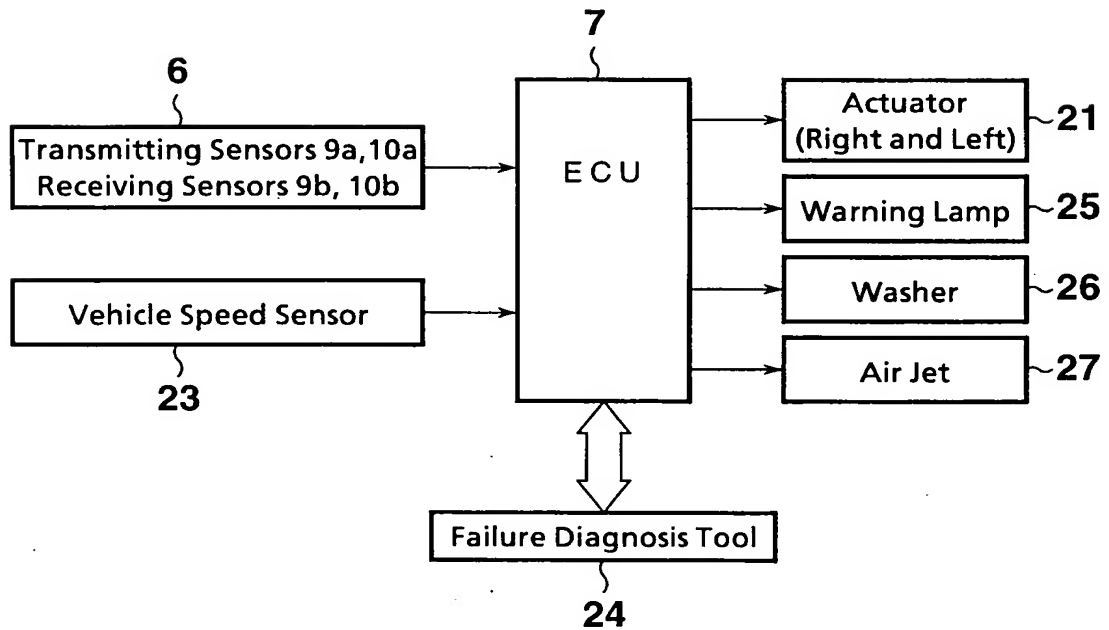


FIG. 12

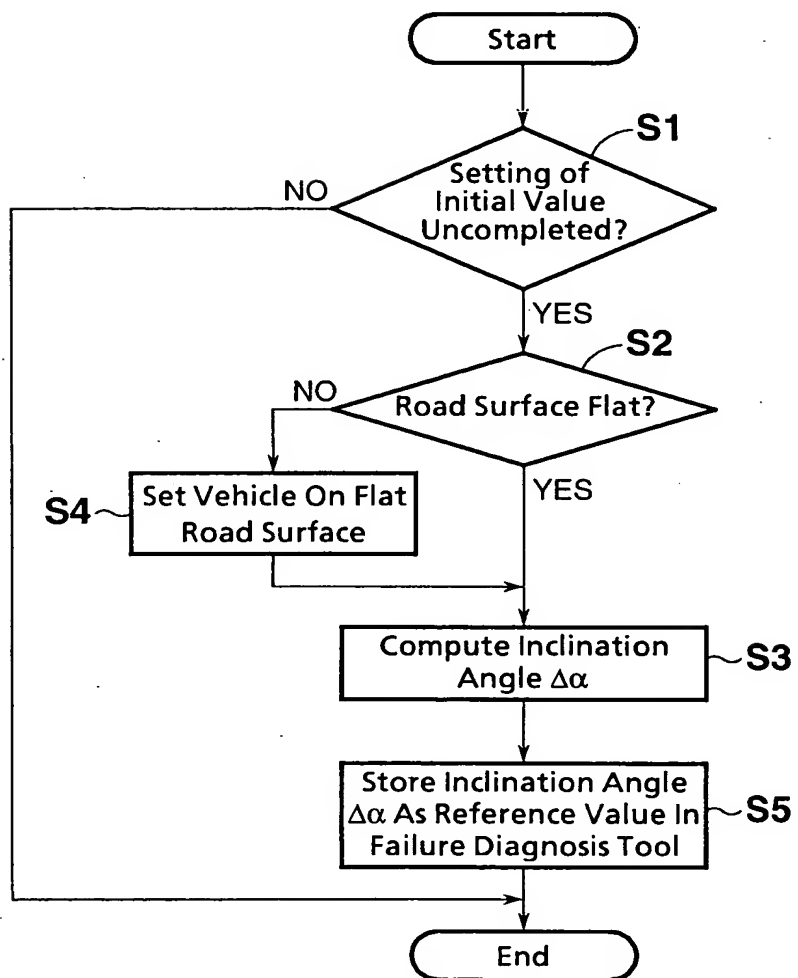


FIG. 13

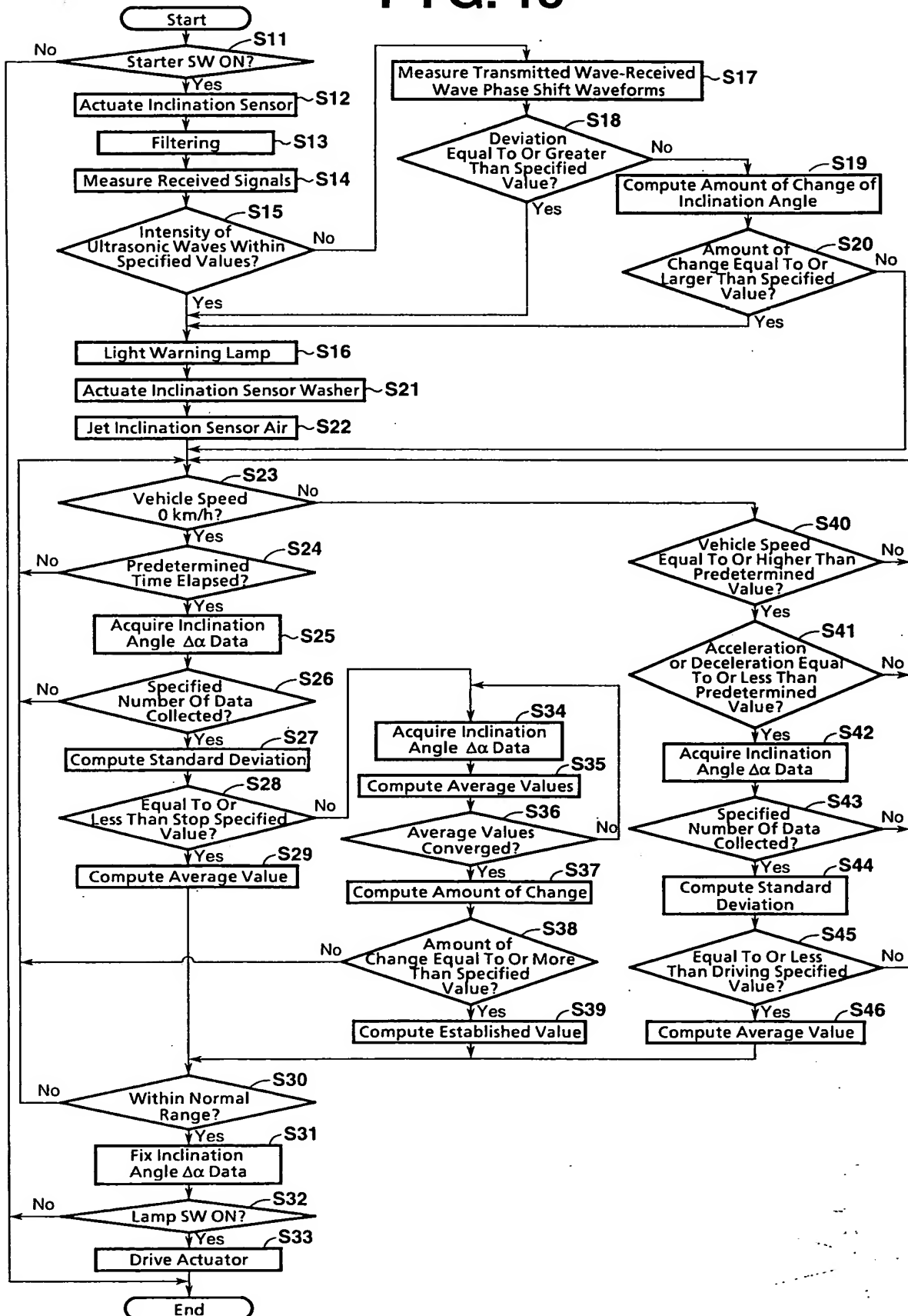


FIG. 14

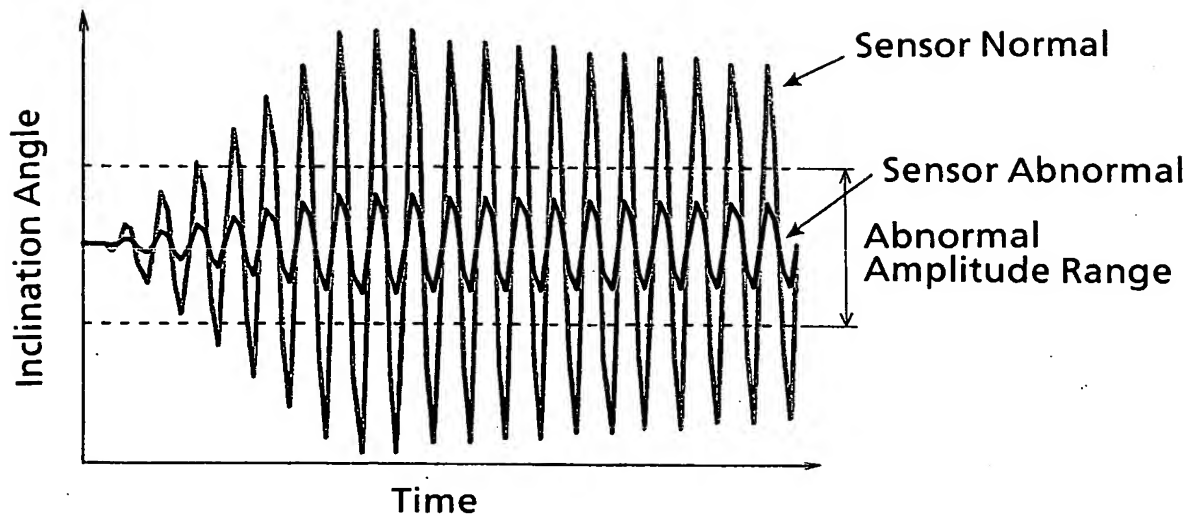


FIG. 15

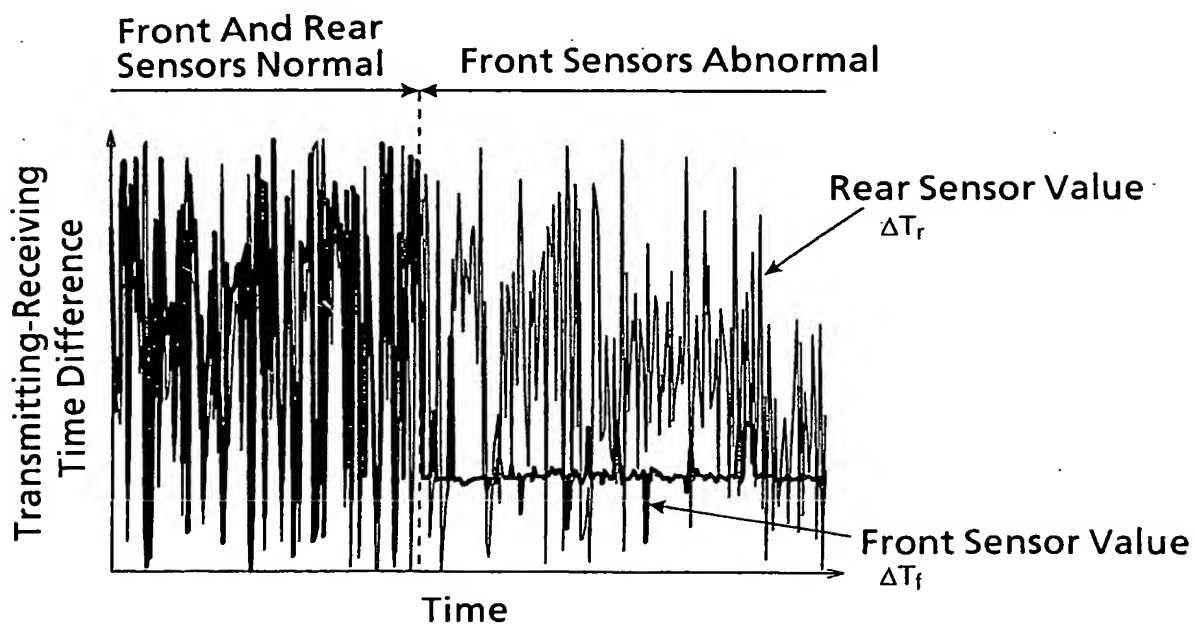


FIG. 16

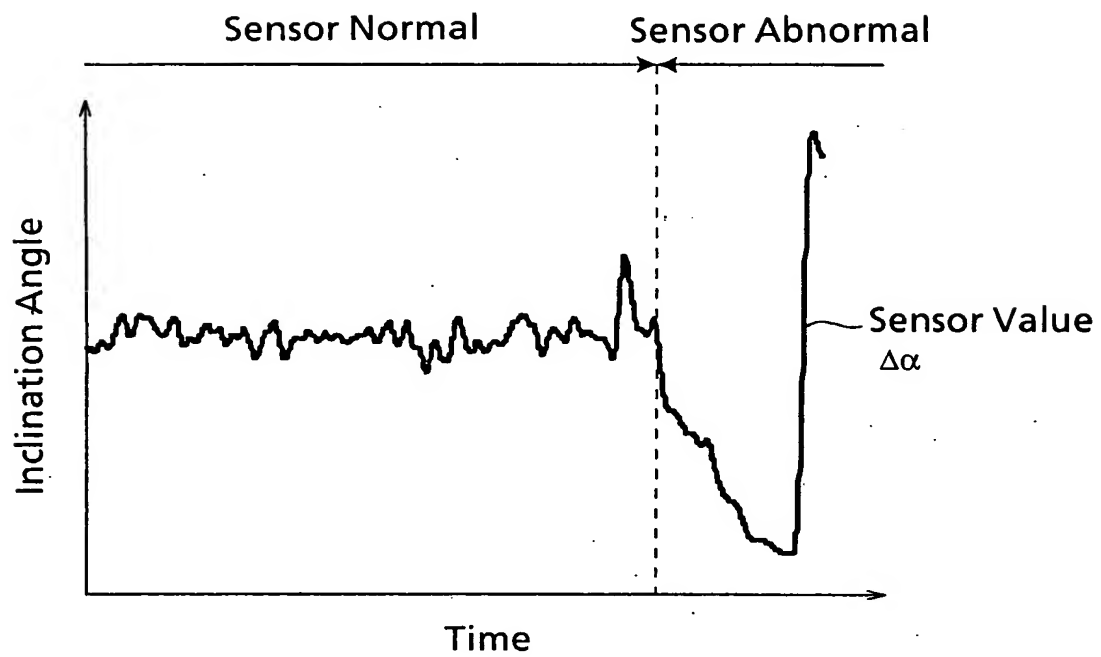


FIG. 17

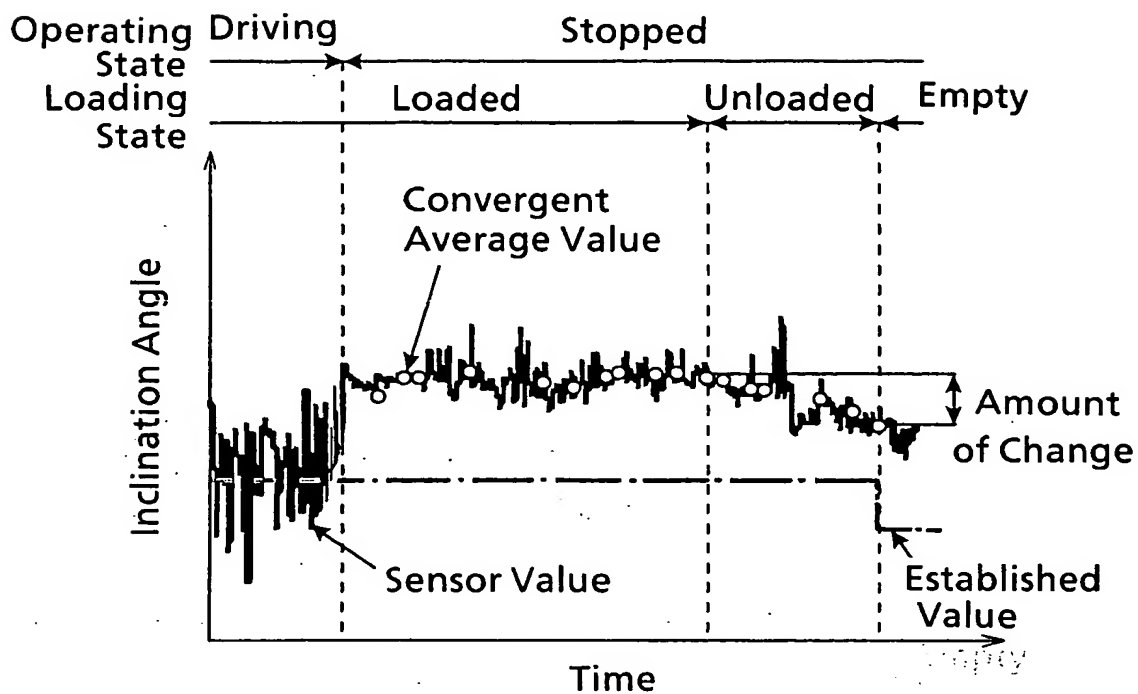


FIG. 18

